

FOLIO

Microelectronics Centre Gears Up for a Busy Fall

The first courses to be offered by the recently established Alberta Microelectronics Centre are scheduled to begin in mid-September. A series of three four-week courses dealing with microprocessor based systems have been organized by Curtis Quigley, the Centre's new Industrial Education Manager.

The Centre, officially opened on 30 April (see *Folio*, 6 May), has a double mandate: to provide assistance to industry for the development of projects involving applications of microelectronics; and to provide training programs

and courses for industrial developers and users of microelectronic processors and equipment.

The courses designed by Mr. Quigley certainly fit the mandate. Geared to technicians, engineers, and other scientists, each course is highly "hands-on" in its approach. And for those who take all three courses, there is a logical progression from the novice stage of the first course to the far more complex area of designing personalized micro-based systems.

"I like to think of the Centre

as a problem solver," says John Robson, General Manager of the Centre. "Our role is to work with small and medium sized industries. Many of them don't know much about microelectronics yet, and so the role of courses like Mr. Quigley's becomes obvious."

While courses will play a key role in carrying out the mandate of the Centre, so, too, will consultation. "Industries, particularly the smaller-scale ones, need help in identifying the areas of their business in which the application of

microelectronics would be valuable," explains Mr. Robson. To this end, much of the time being spent by the Centre's staff is currently concentrated on preparing proposals for a variety of industries.

According to Mr. Robson, almost every manufacturing industry could benefit from the use of microelectronics. But there are difficulties. Many of Alberta's industries are small, and are running quite smoothly. "The thinking seems to be ... why change a good thing," explains Mr. Robson. "We have to explain just why they should change; we have to show them what the benefits would be in making the move to microelectronics."

One factor, certainly, is cost. As the state of the art becomes more refined, the equipment becomes less expensive. This in turn means that it takes a small company less time to get a good return on the initial investment. "This will certainly help," says Mr. Robson. "But it takes time, and a lot of hard work, to convince some of the small, relatively conservative businesses that microelectronics is the way to go."

Courses like those being organized by Mr. Quigley are designed to help. They fall under the umbrella of what Mr. Robson terms "awareness" courses, general introductory courses geared to a wide variety of industries. In addition, the Centre will sponsor high technology courses which are much more explicit and complex.

The importance that the Centre places on such courses is born out by the arrival on campus of

Workshop to Assay the Teaching of First Year General Chemistry

Teaching first year general chemistry is the subject of the W.E. Harris Workshop to be held 2 and 3 September in the Chemistry Centre. Those contributing to the six sessions include representatives of chemistry departments from Victoria to Sudbury, for all of whom this introductory course is a major teaching responsibility.

Dave Brooks of the University of Nebraska, Chairman of the Chemical Education Division of the American Chemical Society, will be a featured speaker. He is widely known for his achievements in the area of audiovisual instruction, including use of PLATO (Program Logic for Automated Teaching Operations).

At The University of Alberta, more than half of the weekly

students hours (WSH) in chemistry are in the first year general courses. The commitment of professorial, teaching assistant, and support staff for lectures, laboratories, and seminars reflects this load, which comprises 2.5 percent of all the WSH's at this University during the fall and winter terms.

The subjects of the workshop were chosen by the participants. The rather uniform agreement on the topics suggests widespread interest and concern. The discussions this year involve both the "what" (content) and the "how" (techniques and the laboratory) of teaching a course which, like English, physics, and mathematics, is at the foundation of many university programs.

This is the fifth W.E. Harris Workshop on the Teaching of

Chemistry. They started in 1976, when the department sought ways of improving the teaching of chemistry. The initial success led to workshops on teaching physical (1977), analytical (1979), and organic (1980) chemistry at the undergraduate level. The usefulness and success of these led to their partial endowment in honor of Professor Emeritus Walter E. Harris.

The organizers, John Martin, Al Kalantar, and R.J. Crawford, believe that this small investment for such a large course will again prove its worth for the chemistry staff, and have its effect right across western Canada.

Anyone interested should contact Margaret Atkins in E3-38 Chemistry, telephone 432-3249. □

Demetrius Zissos, Professor of Computing Science and Electrical Engineering at the University of Calgary. Internationally renowned for his dynamic and pragmatic approach, Dr. Zissos has been invited to the campus for a four-month stay. His time here is sponsored by three disciplines: Computing Science, Electrical Engineering, and the Microelectronics Centre.

Dr. Zissos will work closely with all three groups, acting as a consultant in numerous areas, and giving a number of specialized courses. In fact, it is quite likely that he will take part in the courses being organized by Mr. Quigley.

The first course, which begins on Wednesday, 22 September, is "Introduction to Microcomputers." The second four-week course, "Microprocessor Interfacing," will begin on 20 October, and the final series, "Microprocessor Project," will start on 17 November. All three courses are four weeks long, all have a maximum enrolment of twenty, and all will be held on campus. The registration fee of \$420 includes course notes,

programming aids, and use of microprocessor training equipment. Anyone taking two or more of the courses will be able to register for \$390 per course.

"We're really pleased with this

first series of courses to be offered by the Centre," says Mr. Robson. "We think they will be popular, and most helpful. My advice would be to register early."

More information on the courses may be obtained by contacting the Alberta Microelectronics Centre, Room 544, Electrical Engineering Building. Telephone 432-3914. □

Seventy Years of Summer School

In the summer of 1913, seventy-five school teachers from across the province came to The University of Alberta to take part in its first summer school program. Last week marked the end of the University's seventieth summer school, and more than 3,000 students, representing nearly every Faculty, were in attendance. The years in between have seen vast changes take place in the summer program.

Originally, summer school was sponsored not by the University but by the provincial Department of Education. Held on campus, and staffed by faculty, it afforded an opportunity for teachers throughout the province to upgrade their qualifications.

In 1921 the University began its own summer program as well. Arts and science courses were offered, and with increasing popularity as the years passed. Finally, in 1944, the Faculty of Education took over responsibility for the summer school for teachers, and a single, integrated, University-run summer school was established. Since that time, nearly every Faculty has become involved in the summer session.

Courses offered by the Faculty of Education are still the most in demand. "In certain respects, education courses are among the most challenging in the summer school set-up," says Lloyd Carswell, Director of Special Sessions. "The students who come for education courses are mostly experienced teachers, more mature, and more likely to challenge what they hear. They bring with them a practical experience which certainly keeps the faculty on their toes."

Since all Faculties require at

least a one year residency by students, it is not possible to take a degree through the Special Sessions route. But a variety of reasons draw students to summer school, explains Mr. Carswell. "Often it's to shorten the time it takes to get a degree. But there are many other reasons as well: picking up necessary transfer credits, up-grading or changing qualifications, getting the necessary prerequisites for further study, or, simply coming back in the summer because they can't get jobs, and hate to waste the summer months. And, on occasion, it's because a course is offered in the summer that is not offered in the regular winter session."

Good examples of this type of course are History 419, Classics 474/602, and Anthropology 480. Each of these courses is held on location. History 419 deals with Paris in revolution, and students taking the course go to Paris and study there. Classics 474/602, a combined undergraduate and graduate course, is held each summer in Italy. Students enrolled in the course gain invaluable first-hand experience at the on-going "digs." Anthropology 480 is a senior course in archaeology and, like the classics course, offers students first-hand experience at an archaeological site. The same site in Montana is used each year, and students find themselves working side by side with students from the University of Maine, the university which jointly sponsors the program.

Interest in summer school courses peaked in the early '70s, says Mr. Carswell. In 1971, 4,800 people were enrolled. Spring

Session came to The University of Alberta in 1972 and with it came, not surprisingly, a drop in summer school enrolment. "Spring session quickly became a very popular addition to the services that we offer students, and it took some of the pressure off the summer school program," explains Mr. Carswell.

Enrolment in both spring and summer school has fluctuated, reflecting the general enrolment trends seen at universities across the country. This year, preliminary statistics estimate that nearly 3,300 students enrolled in summer school, and another 4,300 attended spring session.

While the bulk of these students come from the Edmonton area, an increasing number come from further afield. Staff, too, are drawn from outside the immediate University community. "Guest lecturers from other universities, from the business community, and from government contribute a great deal to our summer school program," says Mr. Carswell. "Not only do they share their expertise with the students, but they bring to the University a fresh approach, and this is to the benefit of faculty as well."

The success of the summer school program is due in large part to the joint efforts of all areas of the University community, Mr. Carswell points out. "I think that as a result of a real cooperative effort our summer school has made an important contribution to The University of Alberta. Our hope is that that contribution continues, and, hopefully, increases." □

FOLIO

Volume Nineteen
Number Nine

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The Office of Community Relations produces Folio on a weekly basis for the staff and other interested persons. Folio contents may be reprinted with acknowledgment.

ISSN 0015-5764

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SSHRC Grant Allows Library to Boost Subject Collections in Romanticism

The University of Alberta Library has received a grant in the amount of \$40,000 in order to strengthen its subject collections in Romanticism. This grant, for a three-year period, is provided under the terms of the Social Sciences and Humanities Research Council of Canada's program on the strengthening of specialized collections.

According to the conditions of this program, an institution must be recognized as holding a collection of national significance in the subject field, and thereby identified as an essential link in the network of Canadian scholarly resources and the national research effort.

That this University's Library has a distinguished collection in this field is the outcome of the efforts of many dedicated people for many years, including librarians and faculty members specializing in modern languages and literatures, says Peter Freeman, Librarian to the University Elect.

Corresponding to the Library's subject strength, the University's programs of study, research, and publication in Romanticism have for many years maintained a position of international leadership, he points out. In recent years two major international conferences on Romanticism have been held at this institution and a basic journal supporting the field, *The Canadian Review of Comparative Literature*, is produced here.

While Romanticism, in a narrow sense, is the name of an international movement in literature and the arts characteristic of the early nineteenth century, the culture and ideology of Romanticism goes much deeper and is a factor of our heritage conditioning many present-day social institutions, values, and attitudes. It is accordingly important to preserve and deepen our understanding of the movement.

The grant will be used to enrich our holdings of primary and secondary materials in the Romantic traditions of Britain, Germany, France, Italy, and other countries.

Although the Library is committed to the acquisition of newly published materials in

Romanticism from its annual operating grant, the Library lacks numerous older editions of works which are essential to the development of the period. Many of these works are rare and expensive, and could not be acquired without the SSHRC grant.

The grant will be managed by J.K. Wikeley, Modern Languages Librarian, Humanities and Social Sciences Library, who is also chiefly responsible for the preparation of the successful application. Mr. Wikeley may be contacted at 432-5972 for further details.□

75th Anniversary Song Premiered at SummerFest '83

When Richard Simpson, a fourth-year student in the Faculty of Arts, first thought of writing a song in honor of the University's 75th Anniversary, little did he know that it would eventually be introduced by Big Bird, the immensely popular member of the Sesame Street gang, as a highlight of Edmonton's SummerFest '83; little did he know that it would be premiered by the Edmonton SummerFest Pops Orchestra.

But on Monday, 9 August, that is indeed what happened. Before more than 2,000 people who filled the Valley Tent, "What We Do Affects You" was performed for the first time.

Song-writing is not new to Richard Simpson. With no formal musical training, but with a natural talent for piano and guitar, he started writing music as a boy, often performing with his family and friends. In 1978, he submitted a song to the Commonwealth Games Committee. They liked it, recorded it, and it was widely used during the Games.

With that success behind him, it was natural to approach the University about a 75th Anniversary theme song, and so he took his idea to Brian Bechtel, the student member of the 75th Anniversary Committee. Seed money from the Committee enabled him to record the initial

piano version of his song.

Like the Commonwealth Games people, the University Committee was impressed with the talents of the English Lit. major, and they gave him the go ahead, and the money, to complete his tribute to the 75th Anniversary of the University.

Richard is quick to point out that he did not work alone. As President of the Common Times Music Club, a registered Students' Union club, he received a great deal of help from other members of the club.

"The theme was easy," he explains. "That came from the University's 75th Anniversary theme (Scholarship and Innovation: What we do affects you). But I needed help with the concepts, with translating that theme into something people could identify with. That's where the club members were so important."

It is quite a leap from writing a song to having it premiered as a part of SummerFest celebrations. How did it happen? Certainly it was a SummerFest tribute to the University, but it was more than that.

According to B.J. Silzer, Administrative Coordinator of the 75th Anniversary Committee, the arrangements to have the song played at SummerFest were, in a way, a thank you to the University.

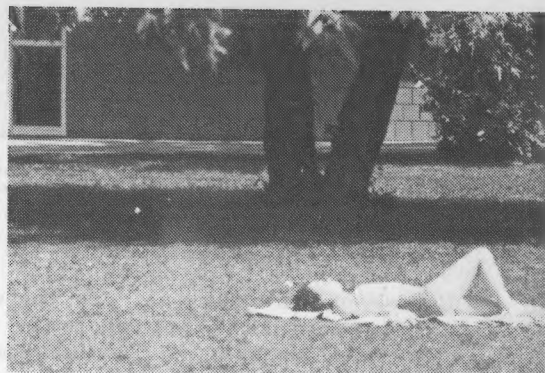
"The SummerFest people came up against some logistical problems relating to the Valley Tent," he explains. "They approached the University for advice. We gave them advice, and quite a bit of help as well. In return, they agreed to premier the song. The project has certainly gone beyond our original thinking," continues Mr. Silzer. "It was a lot of work having it scored and arranged for the Pops Orchestra. But it was worth it. We are very pleased with the song and with its premier."

And Richard Simpson? "Oh, I was really quite delighted! It was exciting to hear it performed by the Orchestra. I can't wait to hear it again."

The chances are good that he will, indeed, be able to hear it again. Planning is currently underway to have some minor modifications made to the musical arrangement. Recording expert Darryl Goede, a graduate of The University of Alberta, is collaborating with Mr. Simpson and Bob Derkash, who did the orchestral score, in an effort to make a recording of the song. It is likely that the record, while not for commercial distribution, will be available as a memento of the University's 75th Anniversary. And a fitting memento it will be.□

September

AUGUST							OCTOBER							NOVEMBER						
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8	9	10	11	12	13	14	10	11	12	13	14	15	16	8	9	10	11	12	13	
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22	23	24	25	26	27	28	24	25	26	27	28	29	30	22	23	24	25	26	27	
29	30	31					31							29	30					



sunday

monday

tuesday

wednesday

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•Labour Day
University buildings
closed

13

•Classes begin

20

•GFC

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7

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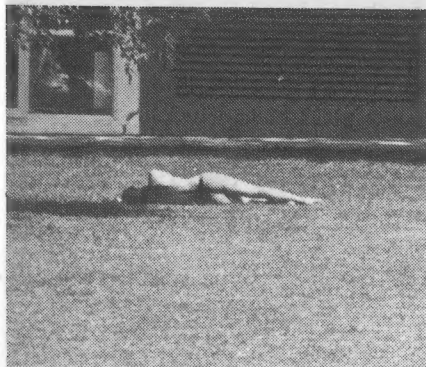
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•Until
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Can it be? Is summer really on the wane? If so, the tanned look will be eclipsed, leisure time will be pared, tweed jacket salesmen will prosper, and these supine forms will next be seen upright and alert in a classroom. Beginning 13 September, a

(sterling) cast of thousands will attend classes, a far cry from September 1908 when the University's first classes, held in what is now Queen Alexandra School, drew forty-five students. Let September's song burst forth.

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23

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friday
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•Board of Governors

10 •GFC Executive

17

24

saturday
4

11

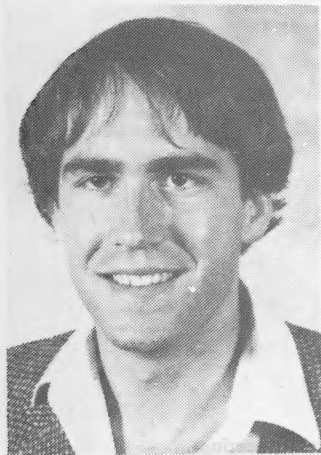
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25 •Senate meeting

Faculty of Science Gold Medalists

Each year the Faculty of Science awards three gold medals to outstanding graduating students at the Spring Convocation.

The Lieutenant-Governor's Gold Medal was awarded to Michael Phillip Lamoureux as being the graduate student from an Honors Program who demonstrated the highest distinction in scholarship. Mr. Lamoureux, a graduate of Archbishop MacDonald High School, received a First Class Bachelor of Science degree in Honors Mathematics. As an undergraduate student, Mr. Lamoureux also received the J.W. Campbell Memorial Prize in Mathematics, the Ernest Sheldon Memorial Prize in Mathematics, and a Board of Governors' Award.



While in his senior year at Archbishop MacDonald High School, Mr. Lamoureux was President of the Student Council and he received the outstanding student award.

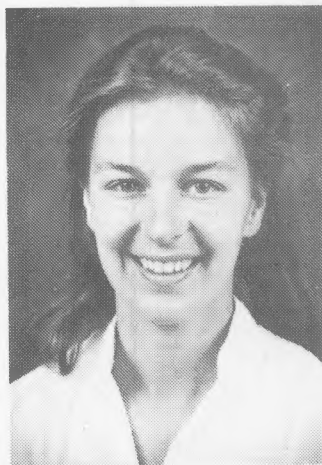
The Gold Medal in Science was awarded to Stephanie Andrea Miller (nee Woken) as being the graduating student from a Specialization Program who has shown the highest distinction in scholarship. Mrs. Miller, a graduate of Spirit River Secondary School, received a Bachelor of Science degree in Specialization Computing Science



with Distinction.

Upon graduation from high school, Mrs. Miller was awarded a four-year bursary from the Alberta Wheat Pool.

The Dean's Gold Medal in Science was awarded to Linda Anne Ostry as being the graduating student from the General Program who has shown the highest distinction in scholarship. Miss Ostry, a graduate of Strathcona Composite High School, received a general Bachelor of Science degree with Distinction.



During high school, Miss Ostry won athletic awards, took part in the Student Council, and was involved in a youth exchange program to Japan in the summer of 1979. □

Artists of Alberta

A new paperback edition of *Artists of Alberta* is hot off The (University of Alberta) Press. The 108-page book, written by Suzanne Devonshire Baker, an art consultant in Edmonton, contains paintings, sculptures, weaving, and mixed-media work. There are sixty color illustrations and thirty-six black and white reproductions.

Ninety-five of Alberta's most distinguished artists are represented and notes on the background, major works, and underlying philosophy of each are included.

Published in hardcover (\$25) in celebration of Alberta's 75th anniversary in 1980, *Artists of Alberta* can now be purchased through The University of Alberta Press (telephone 432-3662) for \$13.50.

people

At its 28 June 1982 meeting, GFC disbanded the Equal Opportunities Committee on the understanding that it be replaced with *ad hoc* committees from time to time appointed by the President with respect to human rights and equal opportunities areas. GFC also passed a motion that it "recommend to the President that an information officer be appointed to refer complaints to existing University mechanisms and to act as a 'clearing house' for all complaints. The information officer should be a person with many years' experience at The University of Alberta and would consequently be conversant with the history and structure of its mechanisms."

President Horowitz has accepted GFC's recommendation and is pleased to announce that *Ellen Solomon*, Secretary of GFC, has agreed to have added to her present assignment the responsibilities of information officer.

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events Exhibitions

Ring House Gallery

Until 3 October "O! Osiris, Live Forever!" An exhibition on the scientific investigation of mummification. The exhibit is jointly organized by University Collections and Manchester University Museum, England.

Special Collections

Until 1 October: "Pulps, Paperbacks and Popular Fiction." A visual history of the mass marketing of literature from Dickens to Lawrence using pictorial covers, dust jackets, and other material from Special Collections.

Sub Theatre

5 September, 3 p.m. The CBC presents "Super Variety Live" — a one hour special to be televised at a later date. Tickets available at the CBC by calling Debbie Mills at 469-2321.

Non-Credit Courses

Devonian Botanic Garden

Classes located at Botanic Garden. Phone 987-3054 for information and registration.

Mushroom Identification

Date: 31 August. Fee: \$50. Designed for those with more than a passing curiosity about native mushrooms, this class will take a thorough look at Alberta varieties.

Honey Extraction

Date: 1 September. Fee: \$12. This is the follow-up class to the spring Beekeeping course but would appeal to anyone wanting more information on extracting and packaging honey.

Computing Services

The fall timetables for non-credit courses are now available. These schedules include a listing of all the seminars offered by Computing Services from September through December 1982. They are available by calling 432-2261. Please ask for a Fall Seminar Timetable.

Notices

Botanic Garden Club

Dried flower arrangements and materials are now on sale at the Botanic Garden Club's Edmonton location, 11054 87 Avenue. The club is open every Tuesday and Wednesday from 10 a.m. to 3 p.m.

The club rooms at The University of Alberta Devonian Botanic Garden are also

open. Special order flower arrangements will be constructed on request. For further information, call Kay, 434-1038; Louise, 436-2372; or Nonie, 434-3811.

Children's Games Program

There are spaces in the Children's Movement Program on Saturday mornings (10 to 11 a.m.) for children between the ages of five and eleven who wish to participate in a games program. This involves the children in discovery learning situations where they play and invent games using a variety of equipment such as bats, sticks, and balls of all types. Twenty classes have been scheduled — ten before and ten after Christmas. The hours are 10 to 10:45 a.m. for five to eight year olds and 11 to 11:45 a.m. for eight to eleven year olds. Fee: \$30. The starting date is 25 September; registration will take place 11 September from 10:30 a.m. until noon in the Education Gymnasium.

For more information, telephone 432-3652.

Volunteers Required

Volunteers with normal lung function, both smokers and non-smokers, are required to establish normal values for a simple test of lung functions. Test requires about forty-five minutes at the University Hospital. No blood or X-rays required. Phone 432-6212.

Surplus Equipment

The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.

1 — Gestetner Copier — Model 466.

1 — Gestetner Copier — Model 460S.

For further information, please contact E. Meston at 432-5830.

Positions Vacant

The University is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Faculty Service Officer II, Department of Computing Science

Applications are invited for the position of Faculty Service Officer, Department of Computing Science. The Department of Computing Science is currently involved in an expansion to meet increased student enrolments.

The Faculty Service Officer reports to the Administrative Officer and would be primarily responsible for software development on departmental computers in support of teaching and research. Current computers include PDP11/45, PDP11/60, and a VAX11/780, all running UNIX and supporting a variety of terminals and color display systems. In addition, a number of mini- and micro-computers are utilized. Coordination and supervision of support

staff is also an important function.

An MSc (minimum) in Computing Science, or related field, is required.

Salary range is \$27,720-\$39,820.

Applications, including a resume and the names of three (3) referees, should be sent, by 9 October 1982, to: Dr. W. A. Davis, Acting Chairman, Department of Computing Science, 615 General Services, The University of Alberta, Edmonton, Alberta, T6G 2H1.

Faculty Service Officer II, Faculty of Pharmacy and Pharmaceutical Sciences

The Faculty of Pharmacy and Pharmaceutical Sciences requires a Faculty Service Officer II for SLOWPOKE Nuclear Reactor. The individual will undertake development and application of reactor technology, particularly neutron activation analysis.

Applicants should be experienced in analytical techniques with an emphasis on modern instrumentation and computer operation. Duties include reactor operation and service analysis for on and off-campus parties. PhD or equivalent experience required. Appointment as early as 15 November 1982, with a current salary range beginning at \$27,000 per annum. Applicants should forward transcripts, curriculum vitae, and names of three references to: Dr. L.I. Wiebe, Professor and Chairman, University of Alberta SLOWPOKE Committee, Faculty of Pharmacy and Pharmaceutical Sciences. The University of Alberta, Edmonton, Alberta T6G 2N8 prior to 31 October 1982.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Please do not contact the department directly. As positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 20 August 1982.

Library Clerk I (Part-time/term) (\$589-\$704) — Health Sciences
Audiovisual Education
Clerk-Typist II (Part-time/Recurring Term) (\$632-\$757) — Continuing Medical Education
Clerk Typist II (\$1,106-\$1,324) — Sociology, Pension and Benefits Administration
Senior Clerk (\$1,106-\$1,324) — Technical Services (Graphics Division)
Data Entry Operator I (\$1,185-\$1,426) — Bookstore
Purchasing Clerk II (\$1,232-\$1,487) — Boreal Institute, Extension
Admission Records Clerk (\$1,232-\$1,487) — Office of the Registrar
Clerk Steno III (Part-time) (\$616-\$733) — Faculty of Medicine, Pharmacy
Clerk Steno III (\$1,232-\$1,487) — Educational Research Services, East Asian Languages and Literatures
Dental Assistant II (Trust) (\$1,324-\$1,616) — Mobile Dental Clinic
Medical Steno (\$1,373-\$1,682) — Psychiatry
Administrative Clerk (\$1,373-\$1,682) — Extension
Library Assistant II (\$1,373-\$1,682) — Rural Economy

Library Assistant III (Part-time) (\$11.09/hour) — Language Laboratories
Departmental Secretary (Term) (\$1,548-\$1,908) — Physical Education
Departmental Secretary (\$1,548-\$1,908) — Native Affairs, Speech Pathology and Audiology
Computer Assistant (\$1,106 - \$1,324) — Computing Services
Food Service Worker I (\$1,106-\$1,324) — Housing and Food Services
Food Service Worker II (\$1,148-\$1,373) — Housing and Food Services
Storeman I (\$1,230-\$1,471) — Printing Services
Food Service Worker III (\$1,324-\$1,616) — Housing and Food Services
Building Services Worker III (\$1,373-\$1,682) — Physical Plant (Building Services)
Equipment Assistant II (\$1,373-\$1,682) — Physical Education and Recreation
Instrument Technician I (\$1,426-\$1,754) — Chemistry
Technician I (\$1,426-\$1,754) — Entomology, Mechanical Engineering
Animal Technician I (\$1,426-\$1,754) — Bioscience Animal Services
Maintenance Worker I (\$1,487-\$1,829) — Physical Plant (Maintenance Division)
Engineering Technologist I (Systems Analyst) (\$1,487-\$1,829) — Physical Plant (Energy Management)
Technician II/III (Trust) (\$1,616-\$2,265) — Dentistry
Biochemistry Technologist I/II (Trust) (\$1,616-\$2,265) — Biochemistry, McEachern Laboratory
Fire Safety Technician (\$1,908-\$2,368) — Occupational Health and Safety
Engineering Technologist III (Telecommunications Analyst) (\$1,908-\$2,368) — Physical Plant (Telecommunications)
Biology Technologist III (\$2,078-\$2,581) — Genetics
Programmer/Analyst III (Trust) (\$2,472-\$3,085) — Computing Science
Contracts Supervisor (\$2,581-\$3,229) — Physical Plant (Projects)
Controls Fitter (\$2,773-\$2,898) — Physical Plant (Building Maintenance)
Programmer/Analyst IV (\$2,951-\$3,697) — Physical Plant (Energy Management)

The following is a list of currently available positions in The University of Alberta Libraries. The bulletin board in Cameron Library, Room 512, should be consulted for further information as to availability and position requirements.

Library Clerk II (\$1,106-\$1,324) — Circulation (Cameron)
Library Clerk III (\$1,232-\$1,487) — Periodicals and Microform Centre, Reference (Rutherford North)
Library Assistant I (\$1,232-\$1,487) — Serials Unit Cataloguing, Bibliographic Verification, Cataloguing, Acquisitions
Library Assistant II (\$1,373-\$1,682) — Government Publications

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an alteration is made. Advertisements cannot be accepted over the telephone.

Accommodations available

For sale — 1,400 sq. ft. University area home, large kitchen, three bedrooms, basement developed, double garage, large lot. Asking \$127,000 with \$87,000 mortgage at 15½%. 436-7425.
For rent — 1 January — 28 Dec. 1983. Two bedroom bungalow in Pleasantview. 435-2027, 432-3530.
Basement — 10762 Whyte Avenue. 1,770 sq. ft., subdivided. \$3/sq. ft. 482-4072.
For sale — Belgravia. Three bedroom bungalow, renovated throughout, hardwood floors, custom kitchen and bath, finished basement, garage. 11527 72 Ave. Phone 437-7632.
Sale by owner — Windsor Park. 8468 118 St. Large bungalow in quiet crescent, pie-shaped lot. Double garage, developed basement. \$156,000. 455-1188.
For rent — Hi-rise condominium, 116th Street near Jasper Avenue. One bedroom, one den, 1,000 square feet, 6 appliances, drapes, redecorated, \$750 per month (includes utilities), negotiable. Evenings 434-1063 or 488-4122.
For rent — Elegant, three bedroom, Millwoods duplex, double garage. \$750/month. 463-0612.
For sale — Windsor Park bungalow. Quiet crescent location. Walk to University. Completely finished, garage. Assumable \$70,000 mortgage. Immediate possession. Asking \$149,500. Call Maxine Tipper res. 435-7103, Langley Realty 436-3050 (pager)
For rent — Deluxe, basement bedroom/bathroom, furnished. Use of rumpus room. Share kitchen. \$300/month. 483-8687 evenings.
House for rent — Excellent for University family. Three bedrooms, 1,350 sq. ft. Lovely, big back yard. Charming neighbourhood. \$750/month with \$750 damage deposit. 11146-73 Ave. Phone 434-8996.
Furnished house — Belgravia. Available 1 Sept. Call 436-5561, 434-0111. \$700/month.
For sale — Scona mansion. 3,000 sq. ft., solid brick, huge lot. Provincial grant available. \$50,000 down. Goetz 439-0035, 436-1134. Crescent Realty.
For rent — Parkview. Immaculate, three bedroom bungalow. Two bathrooms, garage, appliances. \$650. Lease required. Damage deposit. References. 483-5691 between 5-8 p.m.
For rent — Spacious, new retirement home. Country setting, overlooking Okanagan Lake, 24 miles on paved road from Vernon. Ideal for retired couple. Reasonable rent. Long term lease available. 432-4429, 436-3505.
For sale — Located at 10709 75 Ave. Price reduced to \$84,500, super financing, \$67,000 at 11¼% till Oct. 1984. Appointments through Evan

Potter, Langley Real Estate, 436-3050, 435-1510.

For sale — \$15,000 down and \$680 a month IPT for Duggan condominium, nicely decorated. Assumable 13½% mortgage until May 1986. \$68,500. Call Agnes Fisher, Langley Real Estate, 436-3050 or 434-4080.

Share — A female academic wishes to share spacious, furnished, three bedroom apartment with a female professional or student from Sept. 1982. Terms negotiable. 436-8885 or 432-2348.

For sale or lease — Two bedroom condominium in brick building. Two blocks from campus. Appliances, underground parking, pool, security. Liz Crockford 436-5250. Spencer Real Estate.

For rent — Brander Gardens. Executive, four bedroom home, double attached garage, fireplace, finished basement. Close to schools, available immediately. \$1,100/month. No pets. 435-7185.

For sale — ¼ section with new A-frame cabin. Lovely secluded setting, 55 miles N.E. Asking \$84,900. Vince 998-7801, 998-9182 (evenings). Melton's.

Christian family have apartment for rent in private home. Three large rooms, fireplace, kitchenette, shower and two piece bathroom, separate entrance. 434-6022 evenings.

For rent — Country living 30 minutes from University. New home, sauna. Furnished or unfurnished. Call Rob 468-6025 days; 489-1653 evenings.

For rent — Riverbend. Four bedroom, executive bungalow with finished basement including rec. room, wet bar, full bath and extra bedroom. \$1,250/month plus damage deposit. 438-2148.

For sale — New, Windsor Park bungalow. 14% financing. \$138,500. Resi Richter 483-9432, 455-4181. A.E. LePage.

For sale — Split level, Windsor Park. Remodelled kitchen. Resi Richter 483-9432, 455-4181. A.E. LePage.

For sale — Super financing. Large semi (U of A) with suite. Resi Richter 483-9432, 455-4181. A.E. LePage.

For sale — Best buy in Grosvenor. Luxury condo. Resi Richter 483-9432, 455-4181. A.E. LePage.

For sale — Doll house in Glenora. \$88,500. Resi Richter 483-9432, 455-4181. A.E. LePage.

For sale — Belgravia. Three bedroom, family room. Good buy-down. Resi Richter 483-9432, 455-4181. A.E. LePage.

Have sincere purchasers for two-storey or convertible bungalow. Windsor Park, Belgravia, also — For sale — Four bedroom bi-level, Petrolia. Two baths, super garage. \$103,500. Reina Proudfoot. Royal Trust 435-4869, 436-2556.

For sale — 2,200' Lang, split, four bedrooms, many extras. \$154,900. Mortgage \$57,000, 10¼% 1983, prime Riverbend location, 75' residential lot. Sacrifice \$45,000. Reina Proudfoot. Royal Trust. 435-4869, 436-2556.

For rent — Blue Quill ravine condo, three bedrooms, \$660/month. First month rent (Sept.) negotiable. 436-6706.

Accommodations wanted

University staff member requires bachelor suite, short walk to University. 1 Oct. to 30 April, Call W.A. Gill, Dept. of

Drama. 432-2271 x7 during office hours.

Parking space/garage wanted, Windsor Park area. 435-7126 after 6 p.m.

Automobiles and others

For sale — Peugeot 504, 1975. 469-3594.

1977 Dodge Van, black, V8, standard, \$3,500. 456-9204.

Goods for sale

Teak and glass coffee table: teak end table. Phone 488-4951.

Antiques evaluated for insurance, family division, dispersal, moving, estate liquidation. For sale; books, silverware, ivory and curios. Mary Goulden Antiques L.A.P.A.D.A. 10437-142 Street, 451-6320.

Teak veneer bedroom furniture, seven pieces, \$550. Pine living room set, \$550. 435-8851.

Apple computer, monitor, 2 disk drives, Visicalc, accounting software, quality printer, modem. Evenings 466-0630.

For sale — Three band wedding ring set, value \$1,800, offers. White gold, opal necklace. Value \$225, offers. 437-5182.

Services

Donnic Word Processing. Specializing in theses, etc. 8315A-105 St. 432-1419.

Singing teacher, Eileen Turner 439-4661.

General Carpentry Work — Renovations. 434-9709 evenings.

Piano, theory lessons. Western Board. Robert Gariepy 433-7238.

Sailing — Learn to cruise the Gulf Islands, Yacht Charters, exclusive C & C Yacht Dealers. Alberta Yachts, 426-4372.

Windsor Park Playschool has vacancies for preschoolers. Information 425-9603, 433-8141.

Experienced piano teacher and ARCT student. Lessons starting Sept. Phone 484-7614 after 5 p.m.

Typing — You write it, I'll type it. Reasonable rates. Sheila 459-4158.

Piano tuition for all grades and all ages. University area. Mrs. R. Meilen L.R.A.M. 436-2587.

Wanted: adult women interested in learning how to Scottish dance. I have an accredited teacher but need others to form an evening class. Phone Mary 432-3782, mornings only.

Child Care Workers needed for quality day care centre. Minimum requirement: Two year E.C.D. Diploma or equivalent. Experience preferred. Qualified persons only need apply. Phone 434-4132.

Will do housework by the hour. Reasonable. 489-0604.

Aquasizes: Save those aching joints. Do your exercising in the water. Non-swimmers welcome. Contact West pool 432-3570 for details or register at the West Pool Office. W1-75 P.E. Bldg.

Relaxersices: A good beginning for or maintenance of an activity program. Relaxed stretching and working of the body. Contact Valerie Sherwood Kennedy (432-0072) concerning details.

Springhill Nursery School, Edmonton's oldest parent co-operative nursery school now in Allendale School, 6415 106 St. Carefully developed program for ages two to five. Call 466-9455 or 462-1511. (Not daycare).

1982 Golden Bears Football Tickets

This season the Department of Athletic Services would like to extend a special invitation to you and encourage you to attend some of our home games which will take place at Clarke Stadium, mainly due to the continued construction work that will no doubt disrupt from time to time the use of our Varsity Stadium on campus. Conveniently located at 92nd Street and 107 Avenue, parking is available at the Stadium during all Golden Bear Events.

This year, a special one for all members of the University community because of the celebration of our 75th anniversary, is an opportune time for us to emphasize not only the remarkable tradition and achievements which our student athletes have established but also the wonderful performances and entertainment which they provide for all who are able to come out and watch them in their pursuit of excellence.

We certainly hope that you will decide to participate actively in this year's intercollegiate athletic program by attending as many of the Golden Bears and Pandas games as possible. Your increased support will add much more enthusiasm to the whole atmosphere at each game and will mean a great deal to each of the young men and women who so capably represent our great University in interuniversity competition.

Clip and Mail Today!

FOOTBALL TICKET ORDER FORM

GAME	NUMBER REQUIRED	AMOUNT ENCLOSED
Aug. 28 vs. Saskatchewan	_____ at \$4.00 ea.	_____
Sept. 11 vs. British Columbia	_____ at \$4.00 ea.	_____
Oct. 9 vs. Calgary	_____ at \$4.00 ea.	_____
Oct. 30 vs. Manitoba	_____ at \$4.00 ea.	_____

Make cheque or money order payable to:
THE UNIVERSITY OF ALBERTA

Name: _____ Phone: _____
Address: _____
City/Town: _____ Province: _____

Mail to:
Department of Athletic Services
Tickets: Intercollegiate Athletics
Room W-134, Physical Education
and Recreation Bldg. 295
The University of Alberta
Edmonton, Alberta T6G 2H9
Phone: 432-3365